

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/031124

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F02M35/022 F02M35/024 B01D45/16 B01D50/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02M B01D F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 237 895 A (ARTHUR ALBERT BULL) 26 November 1925 (1925-11-26) page 1, line 10 - page 2, line 50	14 1-4,12
X	GB 752 380 A (FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT) 11 July 1956 (1956-07-11) page 1, line 48 - page 2, line 31	15
A	US 6 264 712 B1 (DECKER) 24 July 2001 (2001-07-24) column 1, line 15 - column 4, line 67	1,12,14, 15
A	US 6 361 574 B1 (DECKER) 26 March 2002 (2002-03-26) column 3, line 34 - column 7, line 33	1,2,12, 13

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

27 January 2005

Date of mailing of the international search report

03/02/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Doolan, G

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/031124

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 237895	A	26-11-1925	NONE	
GB 752380	A	11-07-1956	NONE	
US 6264712	B1	24-07-2001	AU 763153 B2 AU 4026300 A BR 0009576 A EP 1204455 A1 NZ 514344 A WO 0059609 A1	17-07-2003 23-10-2000 26-03-2002 15-05-2002 30-05-2003 12-10-2000
US 6361574	B1	26-03-2002	AU 5383001 A EP 1268038 A1 WO 0170374 A1	03-10-2001 02-01-2003 27-09-2001

Best Available Copy